

California Energy Commission



CLASSIFICATION: Electric Generation Systems Specialist I

TENURE: Permanent

TIME BASE: Full-Time

SALARY: \$6,379.00 - \$7,663.00
(Salary will be adjusted accordingly to comply with furlough program.)

FINAL FILING DATE: Until Filled

LOCATION: Energy Generation Research Office
 Energy Research and Development Division

FINAL FILING DATE:

DUTIES/RESPONSIBILITIES: The incumbent will address research issues affecting electric generation planning, design, operation, and integration of new energy technologies; assess the ability of new and emerging renewable and conventional generation technologies and other enabling technologies to be designed, developed, and deployed to meet the Renewable Portfolio Standards and greenhouse gas emission targets and goals; identify methods, models, and techniques to evaluate energy system impacts of renewable and conventional energy and distributed generation and make recommendations on effective integration strategies; assess the environmental impacts of community-scale and utility-scale renewable energy technologies; develop, test, and field new computer models to determine the ideal characteristics, design, operation, and location for desirable new electric generation and/or renewable technologies; evaluate existing electric generation plans and technologies to determine technical and economic feasibility and environmental cost savings of retrofits relative to construction of new power plants; and develop and publish scenarios detailing optimal configuration of new renewable resources and electric generation systems.

- Manage complex technical analysis, evaluations, field demonstrations and environmental tradeoffs of new and emerging renewable generation, distributed generation, and other energy technologies to conform to planning and operational elements of electric generation systems. Develop and use complex system models to optimize hydrogeneration operations; evaluate and assess the environmental factors (e.g., terrestrial biology, air quality, atmospheric warming and increased sea levels due to climate change, wildfire potential, etc.) affecting or being impacted by electricity production, distributed generation, storage and transmission; and evaluate alternative site plan scenarios for generation and transmission facilities. Evaluate and report on environmental impacts with the benefits, performance, reliability and capability of new energy technologies to perform in electricity systems both as individual technologies, and within a larger portfolio of many different new technologies, at community-scale and utility-scale. Using the interpreting the output of computer models, the incumbent will evaluate the potential impacts of the new technologies on state mandated goals such as higher levels of electricity generation from renewable resources, reduction of greenhouse gas and regulated emissions from the energy sector, maintenance of reliable electricity delivery, reduction of natural gas use, and the need for emission reduction credits.
- Lead the research, design, and development of projects that evaluate the environmental impacts of the existing and emerging electricity system, and new renewable generation and distributed generation technologies. Review and evaluate project proposals to determine how well the

project addresses the scope of the solicitation criteria including, but not limited to: the extent the project will advance science or technology; address market issues and needs; meet specified target goals and objectives; the skill and experience of the project team to carry out the technical tasks within budget and schedule and move the results into the marketplace; the project's benefits to the state and the adequacy of the project funding. The incumbent prepares written findings of such evaluations for use by a technical scoring committee. The incumbent briefs the Office, Division, and Commission management and Commissioners on the status of the projects.

- Review and edit reports, multiple-technology resource plans, contracts and other documents associated with the program. Establish and maintain project priorities, perform project evaluation, develop the work plans and budgets necessary to meet program and project goals.
- Consult with and advise the Energy Commission Supervisor II, Team Lead, Office Manager, Division management, Commissioners, and other agencies (as directed) on a variety of issues including biological impacts from the energy sector, impacts to and stability of the electric grid with respect to the changing climate, energy systems integration and research needs related to biological impacts, renewable energy, and distributed generation technologies and their application on the electricity generation systems. Participate in identification of issues and analytic methodologies.

DESIRABLE EXPERIENCE/QUALIFICATIONS: The successful applicant should have:

- Excellent interpersonal skills and expected to work within a large team environment.
- Ability to communicate complicated information in a simple, consumer-friendly manner.
- Ability to coordinate interdisciplinary projects.

WHO MAY APPLY: All interested eligible persons are encouraged to apply. Applicants must have transfer, list, reinstatement, or SROA/Surplus eligibility. Please indicate your eligibility and RPA#560-156 for this classification on the state application form, STD. 678. **Applications will be screened for experience and only the most qualified will be contacted for an interview.**

INTERESTED APPLICANTS SHOULD SUBMIT A COMPLETED STANDARD STATE APPLICATION (FORM STD. 678) TO:

Audra DeBenedetti
1516 Ninth Street, M.S. #3
Sacramento, CA 95814
(916) 654-4515

**California Relay (Telephone) Service for the
Deaf or Hearing-Impaired**
From TDD Phones: 1-800-735-2929
From Voice Phones: 1-800-735-2922

